

OSCILLATOR

ABSTRACT OF THE DISCLOSURE

An oscillator with reduced phase noise. The oscillator includes a resonance circuit and an amplifying circuit. The amplifying circuit has an amplifier. An impedance element having a frequency characteristic is connected to the amplifier and, therefore, the power amplification of the amplifying circuit is decreased by at least 3 dB in a frequency band lower than about 0.5 times an oscillating frequency f_o or higher than about $2f_o$, as compared to the power amplification of said amplifying circuit at the oscillating frequency f_o .